



Roy F. Weston, Inc.
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Fort Devens, Massachusetts 01433
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Mailing Address:
Roy F. Weston, Inc.
P.O. Box 425
Ayer, Massachusetts 01432-0425

06 February 1998

Work Order No. 03886-118-002-2700-00

Mr. Maurice Beaudoin, Resident Engineer
Department of the Army
New England District, Corps of Engineers
New Bedford Resident Office
103 Sawyer Street
New Bedford, MA 02746

Superfund Records Center
SITE:
BREAK:
OTHER:

Reference: Contract No. DACW33-95-D-0004
Delivery Order No. 0002
New Bedford Harbor Superfund Site
Sawyer Street Site O & M
DCN: NBH-020698-AALD

Subject: Quarterly Groundwater Sampling Results - Fourth Quarter 1997

Dear Mr. Beaudoin:

This is a Letter Report summarizing quarterly groundwater sampling activities and results at the New Bedford Harbor Sawyer Street Site. Seven on-site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, MW-5, MW-6, and MW-7A) were sampled on 29 and 30 December 1997. The attached Site Plan shows the locations of on-site monitoring wells. Table 1 summarizes the groundwater samples collected. Table 2 summarizes the final field parameters measured at each location after well purging, but prior to sample collection. Table 3 summarizes the analytical results of the sampling.

As shown on Table 3, both the total and dissolved concentrations of cadmium in MW-3 exceed the applicable U.S. EPA Maximum Contaminant Level (MCL) and Massachusetts Department of Environmental Protection Massachusetts Contingency Plan (MCP) GW-1 regulatory guidelines of 15.0 parts per billion (ppb), respectively. These concentrations are consistent with past analytical data for this monitoring well location. No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 29 and 30 December 1997 groundwater sampling results are attached.

The depression area located east of the Confined Disposal Facility (CDF), in which monitoring wells MW-2 and MW-3 are located, is utilized as a discharge area for rain water which



Mr. Maurice Beaudoin
U.S. Army Corps of Engineers

2

06 February 1998

accumulates on the covers of CDF cells and is normally inundated with water. During the groundwater sampling event on 29 and 30 December 1997, the depression area was mostly dry with only a few areas of standing water; however, the depth at which soils in this area were saturated was unknown. The use of this depression area as a discharge area may affect the natural measured depth to water in the wells and may also affect the quality of groundwater in this area.

Please call me at (978) 772-7190 if you have any questions regarding this Letter Report.

Very Truly Yours,

ROY F. WESTON, INC.

A handwritten signature in black ink, appearing to read 'D. Crispo', with a stylized flourish at the end.

David C. Crispo
Associate Project Engineer

cc: R. Rico (WESTON)
L. Lemay [WESTON DCN File (2)]
M. Otis (CENAE)
Project File (DVN)

Inter-Office Memorandum



TO: Dave Crispo

FROM: Diane Quigley **DATE:** 27 January 1998

PROJECT: New Bedford Sawyer Street Groundwater Sampling **W.O. NO.:** 03886-118-002-2700-00

SUBJECT: Data Review of Filtered and Unfiltered Metals and PCBs Data for Samples 101-1297, 001 through 007, 202-1297, CDF1-1297 and CDF2-1297

ACTION: Metals and PCB data submitted by Lancaster Laboratories for the above listed groundwater samples collected on 12/29 and 12/30/97 was reviewed.

Chains of custodies were reviewed to verify methodologies, condition of samples upon laboratory receipt, and to ensure holding times were met.

At least one PCB surrogate met QC recovery criteria in each sample. Matrix spike and Laboratory Control Spike (LCS) recoveries were within QC limits. The RPD for lead was slightly above QC limits in the metals MS/MSD analysis. No action was taken. Field duplicate criteria was met for filtered samples 001-1297 and 101-1297. No target compounds were detected in filtered field sample 202-1297.

The following discrepancies were noted:

1. Cadmium was detected in filtered sample 001-1297 (0.0031J) but not in unfiltered sample 001-1297.
2. The % RPD (43%) for lead did not meet field duplicate criteria in unfiltered sample 001-1297 (0.0029J) and unfiltered sample 101-1297 (0.0045). Both results should be estimated. However, lead was not detected in filtered sample 001-1297 and was detected at a very low level in filtered sample 101-1297 (0.0031J).
3. Aroclor 1260 was detected at a low level (0.148J) in unfiltered field blank 202-1297. No action was necessary since Aroclor 1260 was not detected in the samples.

All other data is useable as reported by the laboratory.

If you have any questions, call me at x5534.

DQ:cra



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Page: 1 of 5

LLI Sample No. WW 2849638

Collected: 12/29/97 at 11:20 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

001-1297 Grab Water Sample

USACE New Bedford Harbor - MA
01129 SDG#: NHB24-03

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1753	Copper	N.D.	0.0045	mg/l
1055	Lead (furnace method)	0.0029 J	0.0011	mg/l
0173	PCBs in Water			See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:47:52 D 0002 14 132573 596866
320 15.00 00020200 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
(717) 656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





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Page: 2 of 5

LLI Sample No. WW 2849638

Collected: 12/29/97 at 11:20 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

001-1297 Grab Water Sample

USACE New Bedford Harbor - MA
01129 SDG#: NHB24-03

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	DETECTION LIMIT UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.043	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.048	ug/l
0642	PCB-1242	N.D.	0.099	ug/l
0643	PCB-1248	N.D.	0.038	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.036	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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LLI Sample No. WW 2849638

Collected: 12/29/97 at 11:20 by DC

Submitted: 12/31/97

001-1297 Grab Water Sample

USACE New Bedford Harbor - MA
01129 SDG#: NHB24-03

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1304	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1304	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1304	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 1028	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2200	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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LLI Sample No. 2849638

001-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0011	mg/l	N.D.	0 (1)	113	112	1	97			80	120
<hr/>											
0173 PCBs in Water		Batch: 980020003A									
0639 PCB-1016											
0.043	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.048	ug/l	N.D.									
0642 PCB-1242											
0.099	ug/l	N.D.									
0643 PCB-1248											
0.038	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.036	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



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Page: 5 of 5

LLI Sample No. 2849638
001-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
0173 PCBs in Water	TCX	105	60	120
	DCB	84	60	120



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LLI Sample No. WW 2849639

Collected: 12/29/97 at 11:20 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

101-1297 Grab Water Sample

USACE New Bedford Harbor - MA

10112 SDG#: NHB24-04

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Ref. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1753	Copper	N.D.	0.0045	mg/l
1055	Lead (furnace method)	0.0045	0.0011	mg/l
0173	PCBs in Water			See Page 2

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ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:48:14 D 0002 14 132573 596866
320 15.00 00020200 ASR000



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Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





LLI Sample No. WW 2849639

Collected: 12/29/97 at 11:20 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

101-1297 Grab Water Sample

USACE New Bedford Harbor - MA
10112 SDG#: NHB24-04

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.042	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.047	ug/l
0642	PCB-1242	N.D.	0.097	ug/l
0643	PCB-1248	N.D.	0.037	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.035	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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2216 Rev. 8/4/97





LLI Sample No. WW 2849639

Collected: 12/29/97 at 11:20 by DC

Submitted: 12/31/97

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

101-1297 Grab Water Sample

USACE New Bedford Harbor - MA
10112 SDG#: NHB24-04

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1307	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1307	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1307	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 1037	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2215	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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2016 Rev. 8/4/97





LLI Sample No. **2849639**
101-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0011	mg/l	N.D.	0 (1)	113	112	1	97			80	120

0173 PCBs in Water		Batch: 980020003A									

0639 PCB-1016											
0.042	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.047	ug/l	N.D.									
0642 PCB-1242											
0.097	ug/l	N.D.									
0643 PCB-1248											
0.037	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.035	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



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2016 Rev. 6/14/16





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LLI Sample No. 2849639

101-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY		SURROGATE LIMITS	
TRIAL ID	SURROGATE	RECOVERY %	LOW HIGH
0173 PCBs in Water	TCX	109	60 120
	DCB	81	60 120



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22-16 Rev 5/24/99





LLI Sample No. WW 2849645

Collected: 12/29/97 at 14:50 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

002-1297 Grab Water Sample

USACE New Bedford Harbor - MA
02129 SDG#: NHB24-07Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0031 mg/l
1751	Chromium	N.D.	0.0066 mg/l
1753	Copper	N.D.	0.0045 mg/l
1055	Lead (furnace method)	N.D.	0.0055 mg/l
	The quantitation limit for lead was increased due to the nature of the sample matrix.		
0173	PCBs in Water		See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:50:18 D 0002 14 132573 596866
320 15.00 00020200 ASR000Respectfully Submitted
Ramona V. Layman
Manager, Metals/LeachatesLancaster Laboratories
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1016 Rev 8/11/97





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Page: 2 of 5

LLI Sample No. WW 2849645

Collected: 12/29/97 at 14:50 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

002-1297 Grab Water Sample

USACE New Bedford Harbor - MA
02129 SDG#: NHB24-07

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.042	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.047	ug/l
0642	PCB-1242	N.D.	0.098	ug/l
0643	PCB-1248	N.D.	0.037	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.035	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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2216 Rev. 8/4/97





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LABORATORY CHRONICLE

Page: 3 of 5

LLI Sample No. WW 2849645

Collected: 12/29/97 at 14:50 by DC

Submitted: 12/31/97

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

002-1297 Grab Water Sample

USACE New Bedford Harbor - MA
02129 SDG#: NHB24-07

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS			
			TRIAL	ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1315	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1315	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1315	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 1828	Jolene M. Schields
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2245	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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See reverse side for explanation of symbols and abbreviations.

2010 Rev. 8/14/97





LLI Sample No. 2849645
002-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0055	mg/l	N.D.	0 (1)	113	112	1	97			80	120
<hr/>											
0173 PCBs in Water		Batch: 980020003A									
0639 PCB-1016											
0.042	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.047	ug/l	N.D.									
0642 PCB-1242											
0.098	ug/l	N.D.									
0643 PCB-1248											
0.037	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.035	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



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See reverse side for explanation of symbols and abbreviations.

2016 Rev. 8/1/15





LLI Sample No. 2849645
002-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY		SURROGATE LIMITS	
TRIAL ID	SURROGATE	RECOVERY %	
			LOW HIGH
0173 PCBs in Water	TCX	106	60 120
	DCB	70	60 120



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





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Page: 1 of 5

LLI Sample No. WW 2849646

Collected: 12/30/97 at 08:00 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

003-1297 Grab Water Sample

USACE New Bedford Harbor - MA

03129 SDG#: NHB24-08

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Re1. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		DETECTION LIMIT	UNITS
		RESULTS	METHOD		
1749	Cadmium	0.0093 J	0.0031	mg/l	
1751	Chromium	N.D.	0.0066	mg/l	
1753	Copper	0.123	0.0045	mg/l	
1055	Lead (furnace method)	0.0036	0.0011	mg/l	
0173	PCBs in Water				See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:50:43 D 0002 14 132573 596866
320 15.00 00020200 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

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2216 Rev. 8/4/97





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Page: 2 of 5

LLI Sample No. WW 2849646
Collected: 12/30/97 at 08:00 by DC

Submitted: 12/31/97 Reported: 1/12/98
Discard: 1/23/98

003-1297 Grab Water Sample

USACE New Bedford Harbor - MA
03129 SDG#: NHB24-08

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Ref. 03886-118-002

CAT
NO. ANALYSIS NAME

AS RECEIVED
METHOD
RESULTS DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	N.D.	0.046	ug/l
0640	PCB-1221	N.D.	0.13	ug/l
0641	PCB-1232	N.D.	0.051	ug/l
0642	PCB-1242	N.D.	0.11	ug/l
0643	PCB-1248	N.D.	0.040	ug/l
0644	PCB-1254	N.D.	0.15	ug/l
0645	PCB-1260	N.D.	0.038	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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Lancaster, PA 17605-2425
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See reverse side for explanation of symbols and abbreviations

2216 Rev. 8/4/97





LLI Sample No. WW 2849646

Collected: 12/30/97 at 08:00 by DC

Submitted: 12/31/97

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

003-1297 Grab Water Sample

USACE New Bedford Harbor - MA
03129 SDG#: NHB24-08

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 60108	1		01/10/98 1318	Kelly A. Myer
1751	Chromium	SW-846 60108	1		01/10/98 1318	Kelly A. Myer
1753	Copper	SW-846 60108	1		01/10/98 1318	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 1838	Jolene M. Schields
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2300	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





LLI Sample No. 2849646

003-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0011	mg/l	N.D.	0 (1)	113	112	1	97			80	120

0173 PCBs in Water		Batch: 980020003A									

0639 PCB-1016											
0.046	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.13	ug/l	N.D.									
0641 PCB-1232											
0.051	ug/l	N.D.									
0642 PCB-1242											
0.11	ug/l	N.D.									
0643 PCB-1248											
0.040	ug/l	N.D.									
0644 PCB-1254											
0.15	ug/l	N.D.									
0645 PCB-1260											
0.038	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



Lancaster Laboratories
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Page: 5 of 5

LLI Sample No. 2849646
003-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
0173 PCBs in Water	TCX	116	60	120
	DCB	87	60	120



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Page: 1 of 5

LLI Sample No. WW 2849641

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97 Reported: 1/12/98
Discard: 1/23/98

004-1297 Matrix Spike Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05MS

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Ref. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1749	Cadmium	0.050	0.0031	mg/l
1751	Chromium	0.201	0.0066	mg/l
1753	Copper	0.273	0.0045	mg/l
1055	Lead (furnace method)	0.023	0.0055	mg/l
0173	PCBs in Water			See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:48:57 D 0002 14 132573 596866
320 15.00 00020200 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
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717-656-2300 fax 717-656-2681

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

See reverse side for explanation of symbols and abbreviations

2216 Rev 6/4/97





LLI Sample No. WW 2849641
Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97 Reported: 1/12/98
Discard: 1/23/98

004-1297 Matrix Spike Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05MS

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	5.0	0.043	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.048	ug/l
0642	PCB-1242	N.D.	0.099	ug/l
0643	PCB-1248	N.D.	0.038	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	5.3	0.036	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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201c Rev 8/4/97





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LABORATORY CHRONICLE

Page: 3 of 5

LLI Sample No. WW 2849641

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

004-1297 Matrix Spike Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05MS

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1238	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1238	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1238	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 0948	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2101	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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2216 Rev 6/4/97





LLI Sample No. 2849641
004-1297 Matrix Spike Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0055	mg/l	N.D.	0 (1)	113	112	1	97			80	120

0173 PCBs in Water		Batch: 980020003A									

0639 PCB-1016											
0.043	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.048	ug/l	N.D.									
0642 PCB-1242											
0.099	ug/l	N.D.									
0643 PCB-1248											
0.038	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.036	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



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0210 Rev. 8/4/97





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Page: 5 of 5

LLI Sample No. 2849641
004-1297 Matrix Spike Grab Water Sample
USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY		SURROGATE LIMITS	
TRIAL ID	SURROGATE	RECOVERY %	
			LOW HIGH
0173 PCBs in Water	TCX	104	60 120
	DCB	90	60 120



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2216 Rev 8/1/97





LLI Sample No. WW 2849640

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

004-1297 Unspiked Grab Water Sample

USACE New Bedford Harbor - MA

04129 SDG#: NHB24-05BK

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Ref. 03886-118-002

CAT
NO. ANALYSIS NAME

AS RECEIVED
METHOD
RESULTS DETECTION LIMIT UNITS

PCBs in Water

0639	PCB-1016	N.D.	0.042	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.047	ug/l
0642	PCB-1242	N.D.	0.098	ug/l
0643	PCB-1248	N.D.	0.037	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.035	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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2216 Rev 8/4/97





LLI Sample No. WW 2849640

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97

004-1297 Unspiked Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05BK

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1227	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1227	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1227	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 0928	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2046	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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0016 Rev. 8/4/97



LLI Sample No. **2849640**

004-1297 Unspiked Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0055	mg/l	N.D.	0 (1)	113	112	1	97			80	120

0173 PCBs in Water		Batch: 980020003A									

0639 PCB-1016											
0.042	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.047	ug/l	N.D.									
0642 PCB-1242											
0.098	ug/l	N.D.									
0643 PCB-1248											
0.037	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.035	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.

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2216 Rev 8/14/97





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Page: 5 of 5

LLI Sample No. 2849640

004-1297 Unspiked Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

		SURROGATE SUMMARY		SURROGATE LIMITS	
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
0173 PCBs in Water		TCX	102	60	120
		DCB	78	60	120



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2216 Rev. 6/4/97





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Page: 1 of 5

LLI Sample No. WW 2849642

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97 Reported: 1/12/98
Discard: 1/23/98

004-1297 Matrix Spike Duplicate Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05MSD

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		METHOD	DETECTION LIMIT UNITS
		RESULTS			
1749	Cadmium	0.049		0.0031	mg/l
1751	Chromium	0.197		0.0066	mg/l
1753	Copper	0.271		0.0045	mg/l
1055	Lead (furnace method)	0.022		0.0055	mg/l
0173	PCBs in Water				See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:49:19 D 0002 14 132573 596866
320 15.00 00020200 ASR000



Lancaster Laboratories
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Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/1997





LLI Sample No. WW 2849642

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

004-1297 Matrix Spike Duplicate Grab Water Sample

USACE New Bedford Harbor - MA

04129 SDG#: NHB24-05MSD

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
ReI. 03886-118-002

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	4.5	0.041	ug/l
0640	PCB-1221	N.D.	0.11	ug/l
0641	PCB-1232	N.D.	0.046	ug/l
0642	PCB-1242	N.D.	0.095	ug/l
0643	PCB-1248	N.D.	0.036	ug/l
0644	PCB-1254	N.D.	0.13	ug/l
0645	PCB-1260	4.9	0.034	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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See reverse side for explanation of symbols and abbreviations

1216 Rev. 8/4/97





ILLI Sample No. WW 2849642

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

004-1297 Matrix Spike Duplicate Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05MSD

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1241	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1241	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1241	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 0958	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2115	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



Lancaster Laboratories
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2216 Rev. 8/4/97





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Page: 4 of 5

LLI Sample No. 2849642

004-1297 Matrix Spike Duplicate Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0055	mg/l	N.D.	0 (1)	113	112	1	97			80	120

0173 PCBs in Water		Batch: 980020003A									

0639 PCB-1016											
0.041	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.11	ug/l	N.D.									
0641 PCB-1232											
0.046	ug/l	N.D.									
0642 PCB-1242											
0.095	ug/l	N.D.									
0643 PCB-1248											
0.036	ug/l	N.D.									
0644 PCB-1254											
0.13	ug/l	N.D.									
0645 PCB-1260											
0.034	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



Lancaster Laboratories
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2216 Rev 8/4/97





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Page: 5 of 5

LLI Sample No. 2849642

004-1297 Matrix Spike Duplicate Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

		SURROGATE SUMMARY		SURROGATE LIMITS	
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
0173 PCBs in Water		TCX	104	60	120
		DCB	87	60	120



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2016 Rev. 8/4/97





LLI Sample No. WW 2849643

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97 Reported: 1/12/98
Discard: 1/23/98

004-1297 Duplicate Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05DUP

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
ReI. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1749	Cadmium	N.D.	0.0031 mg/l
1751	Chromium	N.D.	0.0066 mg/l
1753	Copper	N.D.	0.0045 mg/l
1055	Lead (furnace method)	N.D.	0.0055 mg/l

The quantitation limit for lead was increased
due to the nature of the sample matrix.

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:49:42 D 0002 14 132573 596866
320 15.00 00008700 ASR000



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates





LLI Sample No. WW 2849643

Collected: 12/29/97 at 14:00 by DC

Submitted: 12/31/97

004-1297 Duplicate Grab Water Sample

USACE New Bedford Harbor - MA
04129 SDG#: NHB24-05DUP

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS		ANALYST
				ID	DATE AND TIME	
1749	Cadmium	SW-846 6010B	1		01/10/98 1234	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1234	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1234	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 0938	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck



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2216 Rev 8/2/97





LLI Sample No. **2849643**
004-1297 Duplicate Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0055	mg/l	N.D.	0 (1)	113	112	1	97			80	120

(1) The result for one or both determinations was less than five times the LOQ.



Lancaster Laboratories
2425 New Holland Pike
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2216 Rev 8/2007



**LLI Sample No. WW 2849644**

Collected: 12/29/97 at 13:50 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

005-1297 Grab Water Sample

USACE New Bedford Harbor - MA
05129 SDG#: NHB24-06

Account No: 08947
 Roy F. Weston, Inc.
 P.O. Box 425
 Ayer MA 01432

P.O. LL-2139-A7
 Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1753	Copper	N.D.	0.0045	mg/l
1055	Lead (furnace method)	N.D.	0.0011	mg/l
0173	PCBs in Water			See Page 2

1 COPY TO Roy F. Weston, Inc.
 1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
 Tan H. Vo at (717) 656-2300
 20:49:55 D 0002 14 132573 596866
 320 15.00 00020200 ASR000



Lancaster Laboratories
 2425 New Holland Pike
 P.O. Box 12-425
 Lancaster, PA 17605-2425
 717-656-2300 Fax 717-656-2681

Respectfully Submitted
 Ramona V. Layman
 Manager, Metals/Leachates





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Page: 2 of 5

LLI Sample No. WW 2849644

Collected: 12/29/97 at 13:50 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

005-1297 Grab Water Sample

USACE New Bedford Harbor - MA

05129 SDG#: NHB24-06

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.042	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.047	ug/l
0642	PCB-1242	N.D.	0.097	ug/l
0643	PCB-1248	N.D.	0.037	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.035	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
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PO Box 12425
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12/16 Rev 8/4/97



**LLI Sample No. WW 2849644**

Collected: 12/29/97 at 13:50 by DC

Submitted: 12/31/97

005-1297 Grab Water Sample

USACE New Bedford Harbor - MA
05129 SDG#: NHB24-06

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1311	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1311	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1311	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 1047	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2230	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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0216 Rev 8/4/97





LLI Sample No. 2849644

005-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0011	mg/l	N.D.	0 (1)	113	112	1	97			80	120

0173 PCBs in Water		Batch: 980020003A									

0639 PCB-1016											
0.042	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.047	ug/l	N.D.									
0642 PCB-1242											
0.097	ug/l	N.D.									
0643 PCB-1248											
0.037	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.035	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



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2216 Rev. 8/2002





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Page: 5 of 5

LLI Sample No. 2849644
005-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY				
TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
0173 PCBs in Water	TCX	110	60	120
	DCB	81	60	120



Lancaster Laboratories
2425 New Holland Pike
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2016 Rev 8/4/97





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Page: 1 of 5

LLI Sample No. WW 2849637

Collected: 12/29/97 at 10:45 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

006-1297 Grab Water Sample

USACE New Bedford Harbor - MA

06129 SDG#: NHB24-02

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Ref. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
1749	Cadmium	N.D.	0.0031	mg/l
1751	Chromium	N.D.	0.0066	mg/l
1753	Copper	N.D.	0.0045	mg/l
1055	Lead (furnace method)	N.D.	0.0011	mg/l
0173	PCBs in Water			See Page 2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:47:24 D 0002 14 132573 596866
320 15.00 00020200 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



Lancaster Laboratories
2425 New Holland Pike
P.O. Box 1740
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0216 Rev 8/4/97





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Page: 2 of 5

LLI Sample No. WW 2849637

Collected: 12/29/97 at 10:45 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

006-1297 Grab Water Sample

USACE New Bedford Harbor - MA

06129 SDG#: NHB24-02

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Ref. 03886-118-002

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.042	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.046	ug/l
0642	PCB-1242	N.D.	0.097	ug/l
0643	PCB-1248	N.D.	0.037	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	N.D.	0.035	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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717-656-2300 Fax 717-656-2681

See reverse side for explanation of symbols and abbreviations

1216 Rev 8/4/97





LLI Sample No. WW 2849637

Collected: 12/29/97 at 10:45 by DC

Submitted: 12/31/97

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

006-1297 Grab Water Sample

USACE New Bedford Harbor - MA
06129 SDG#: NHB24-02

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1252	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1252	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1252	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 1156	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2145	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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See reverse side for explanation of symbols and abbreviations

2010 Rev 8/4/97





LLI Sample No. 2849637
006-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0011	mg/l	N.D.	0 (1)	113	112	1	97			80	120
<hr/>											
0173 PCBs in Water		Batch: 980020003A									
0639 PCB-1016											
0.042	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.046	ug/l	N.D.									
0642 PCB-1242											
0.097	ug/l	N.D.									
0643 PCB-1248											
0.037	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.035	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



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See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





LLI Sample No. 2849637
006-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
0173 PCBs in Water	TCX	106	60	120
	DCB	81	60	120



Lancaster Laboratories
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2216 Rev 8/4/97





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Page: 1 of 5

LLI Sample No. WW 2849636

Collected: 12/29/97 at 10:00 by DC

Submitted: 12/31/97 Reported: 1/12/98
Discard: 1/23/98

007-1297 Grab Water Sample

USACE New Bedford Harbor - MA
07129 SDG#: NHB24-01

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

CAT NO.	ANALYSIS NAME	AS RECEIVED		METHOD	DETECTION LIMIT	UNITS
		RESULTS				
1749	Cadmium	N.D.	0.0031	mg/l		
1751	Chromium	N.D.	0.0066	mg/l		
1753	Copper	N.D.	0.0045	mg/l		
1055	Lead (furnace method)	0.0030 J	0.0011	mg/l		
0173	PCBs in Water				See Page	2

1 COPY TO Roy F. Weston, Inc.
1 COPY TO Data Package Group

ATTN: Mr. David Crispo

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300
20:46:55 D 0002 14 132573 596866
320 15.00 00020200 ASR000

Respectfully Submitted
Ramona V. Layman
Manager, Metals/Leachates



Lancaster Laboratories
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(717) 656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





LLI Sample No. WW 2849636

Collected: 12/29/97 at 10:00 by DC

Submitted: 12/31/97 Reported: 1/12/98

Discard: 1/23/98

007-1297 Grab Water Sample

USACE New Bedford Harbor - MA

07129 SDG#: NHB24-01

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Rel. 03886-118-002

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.041	ug/l
0640	PCB-1221	N.D.	0.11	ug/l
0641	PCB-1232	N.D.	0.046	ug/l
0642	PCB-1242	N.D.	0.095	ug/l
0643	PCB-1248	N.D.	0.036	ug/l
0644	PCB-1254	N.D.	0.13	ug/l
0645	PCB-1260	N.D.	0.034	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2425 New Holland Pike
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717-656-2300 Fax: 717-656-2681

See reverse side for explanation of symbols and abbreviations

2216 Rev 8/4/97





LLI Sample No. WW 2849636

Collected: 12/29/97 at 10:00 by DC

Submitted: 12/31/97

Account No: 08947
 Roy F. Weston, Inc.
 P.O. Box 425
 Ayer MA 01432

007-1297 Grab Water Sample

USACE New Bedford Harbor - MA
 07129 SDG#: NHB24-01

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS TRIAL ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1	01/10/98 1249	Kelly A. Myer
1751	Chromium	SW-846 6010B	1	01/10/98 1249	Kelly A. Myer
1753	Copper	SW-846 6010B	1	01/10/98 1249	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1	01/09/98 1008	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1	01/05/98 2130	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1	01/04/98 1330	Tanya J. Reese



Lancaster Laboratories
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See reverse side for explanation of symbols and abbreviations

2216 Rev. 8/4/97





LLI Sample No. **2849636**
007-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0011	mg/l	N.D.	0 (1)	113	112	1	97			80	120

0173 PCBs in Water		Batch: 980020003A									

0639 PCB-1016											
0.041	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.11	ug/l	N.D.									
0641 PCB-1232											
0.046	ug/l	N.D.									
0642 PCB-1242											
0.095	ug/l	N.D.									
0643 PCB-1248											
0.036	ug/l	N.D.									
0644 PCB-1254											
0.13	ug/l	N.D.									
0645 PCB-1260											
0.034	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



Lancaster Laboratories
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LLI Sample No. 2849636
007-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY		SURROGATE LIMITS	
TRIAL ID	SURROGATE	RECOVERY %	LOW HIGH
0173 PCBs in Water	TCX	107	60 120
	DCB	83	60 120



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LLI Sample No. WW 2849647

Collected: 12/29/97 at 15:40 by DC

Submitted: 12/31/97 Reported: 1/12/98
Discard: 1/23/98

202-1297 Grab Water Sample

USACE New Bedford Harbor - MA
20212 SDG#: NHB24-09

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

P.O. LL-2139-A7
Re1. 03886-118-002

		AS RECEIVED		
CAT			METHOD	
NO.	ANALYSIS NAME	RESULTS	DETECTION LIMIT	UNITS
PCBs in Water				
0639	PCB-1016	N.D.	0.044	ug/l
0640	PCB-1221	N.D.	0.12	ug/l
0641	PCB-1232	N.D.	0.050	ug/l
0642	PCB-1242	N.D.	0.10	ug/l
0643	PCB-1248	N.D.	0.039	ug/l
0644	PCB-1254	N.D.	0.14	ug/l
0645	PCB-1260	0.148 J	0.037	ug/l

Questions? Contact your Client Services Representative
Tan H. Vo at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



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LLI Sample No. WW 2849647

Collected: 12/29/97 at 15:40 by DC

Submitted: 12/31/97

Account No: 08947
Roy F. Weston, Inc.
P.O. Box 425
Ayer MA 01432

202-1297 Grab Water Sample

USACE New Bedford Harbor - MA
20212 SDG#: NHB24-09

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010B	1		01/10/98 1322	Kelly A. Myer
1751	Chromium	SW-846 6010B	1		01/10/98 1322	Kelly A. Myer
1753	Copper	SW-846 6010B	1		01/10/98 1322	Kelly A. Myer
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		01/07/98 0619	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1		01/09/98 1126	Heidi L. Strausser
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1		01/07/98 0619	Charlotte L. Houck
0173	PCBs in Water	SW-846 8082	1		01/05/98 2315	Michael Kielb
0817	Water Sample Pest. Extraction	SW-846 3510C	1		01/04/98 1330	Tanya J. Reese



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LLI Sample No. 2849647
202-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1749 Cadmium		Batch: 980071848001									
0.0031	mg/l	N.D.	0 (1)	100	98	2	105			80	120
1751 Chromium		Batch: 980071848001									
0.0066	mg/l	N.D.	0 (1)	101	99	2	102			80	120
1753 Copper		Batch: 980071848001									
0.0045	mg/l	N.D.	0 (1)	109	108	1	110			80	120
1055 Lead (furnace method)		Batch: 980075704001									
0.0011	mg/l	N.D.	0 (1)	113	112	1	97			80	120
<hr/>											
0173 PCBs in Water		Batch: 980020003A									
0639 PCB-1016											
0.044	ug/l	N.D.		102	95	10	81			56	120
0640 PCB-1221											
0.12	ug/l	N.D.									
0641 PCB-1232											
0.050	ug/l	N.D.									
0642 PCB-1242											
0.10	ug/l	N.D.									
0643 PCB-1248											
0.039	ug/l	N.D.									
0644 PCB-1254											
0.14	ug/l	N.D.									
0645 PCB-1260											
0.037	ug/l	N.D.		106	102	8	70			71	120

(1) The result for one or both determinations was less than five times the LOQ.



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QUALITY CONTROL REPORT

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LLI Sample No. 2849647
202-1297 Grab Water Sample

USACE New Bedford Harbor - MA

Group No. 596866
Roy F. Weston, Inc.

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
0173 PCBs in Water	TCX	106	60	120
	DCB	82	60	120



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